

Marine and Protective Premazi





 **International.**

AkzoNobel





KODIAK PAINTS d.o.o

Generalni distributer

Marin



Novogradnja
Prekookeanski
Mornarica

Protective



Rafinerije
Petrohemija
Teska industrija

A photograph showing a worker in silhouette on a lift platform, working on a large, curved structure, possibly a ship's hull or a large pipe. Several thick, dark cables or hoses run diagonally across the frame. The background is a warm, orange-brown color.

Marine



WELCOME TO POSSIBLE

- 135 years of history with a coating portfolio of over 900 patents
- Operations in over 60 countries with 15 manufacturing sites
- Proven, environmentally responsible solutions

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Marine proverene performanse

Fouling kontrola

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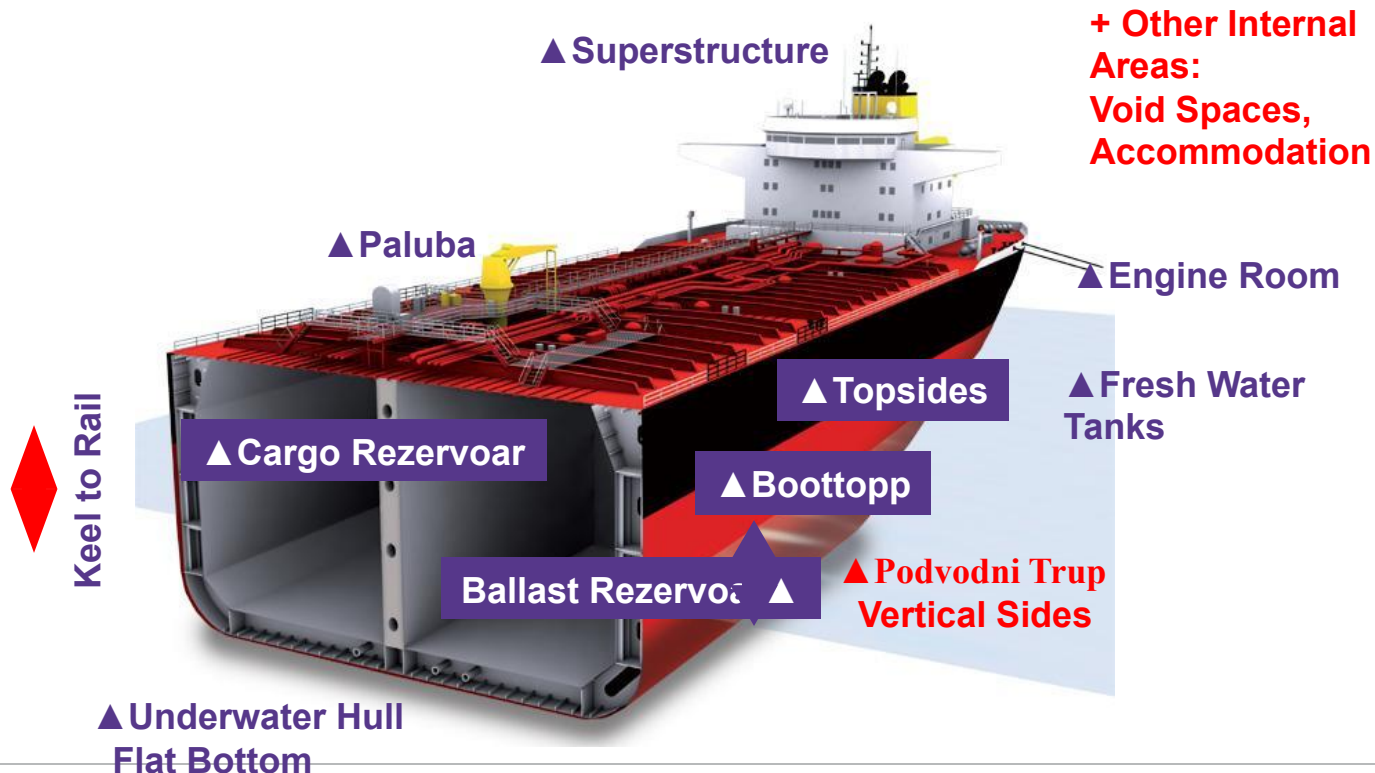


Intersleek 1100SR

Meyer Turku and TUI Cruises chose Intersleek 1100SR

Intersleek 1100SR je biocide-free antifouling premaz najnovije generacije, koji zadržava fouling performanse duži period.

Resenje za svaki deo broda



Selection from our extensive range of industry-leading products

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Shop Primers	Sve površine	Interplate® Zero
Anticorrosives	Tankovi, Nosaci, Paluba, Trup, Unutrasnje površine	Intershield® 300
Abrasion Resistance	Nosaci, Paluba, Trup	Intershield® 803Plus Intershield® 163 Inerta 160
Chemical Resistance	Rezervoari za Hemikalije	Interline® 9001 Interline® 994
Cosmetic Finishes	Paluba, Unutrasnje površine	Interfine® 878
Antifouling High Performance	Podvodni trup	Intercept® 8500 LPP Intercept® 8000 LPP Intersmooth® 7460/5HS SPC Intersmooth® 7465Si SPC Intersmooth® 7475Si SPC
Foul Release	Podvodni trup	Intersleek® 1100SR Intersleek® 700



Protective

Rafinerije

Petrohemija

Teska Industrija

Nafta Gas , hemijska postrojenja

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KOMPLETNA RESENJA U ANTIKOROZIVNOJ I PROTIVPOZARNOJ ZASTITI U INDUSTRIJI



Od rafinerija
...



... do
skladista ...



... do
hemijskih
postrojenja.

Visoko korozine površine

Interzinc 52E - Rapid Recoat Zinc Rich Epoxy

A two component, high solids, fast drying, rapid recoat, metallic zinc-rich epoxy primer which complies with the compositional requirements of ISO 12944 Part 5 and SSPC Paint 20 Level 2, Type II.

- 65% volume solids
- 80% zinc dust in the dry film

For use in extremely corrosive onshore and offshore environments. Compliant to the performance requirements of:

- ISO 12944:2018 C5
- ISO 20340 NORSOK M-501 Ed. 6 System 1

With advanced phenalkamine technology, Interzinc 52E offers productivity boosting dry and recoat times:

- Hard dry in 90 minutes at 25°C
- Overcoatable in 45 minutes at 25°C
- Low temperature cure down to -5°C as standard

Best-in-class application properties

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Visoko korozivne površine

Interseal 670HS - Anti-Corrosive Surface Tolerant Epoxy

Interseal 670HS is a low VOC, two component, high build, high solids, surface tolerant, epoxy coating suitable for use in both maintenance and new construction. Interseal 670HS is suitable for application to a wide variety of substrates including hand prepared rusted steel, abrasive blast cleaned and hydroblasted steel, and a wide range of intact, aged coatings.

- High solids, low VOC, surface tolerant epoxy
- High build - 100-200µm (4-8mils) per coat
- Suitable for immersion
- Exceptional corrosion resistance

Interseal 670HS provides excellent anti-corrosive protection in industrial and offshore environments for both atmospheric exposure and immersion service.



Estetika I Otpornost

Interthane 990E – Strong and Flexible Acrylic Polyurethane

A two-component solvent borne, high solids acrylic polyurethane topcoat with optimised application properties and superior aesthetics. Ideal for use wherever a long-lasting, durable and visually appealing finish is required.

- High volume solids
- Low VOC
- Optimised application properties
- High gloss
- Excellent distinction of image and reduced micro-foaming

Interthane 990E is an innovative acrylic polyurethane with Superior aesthetics with reduced environmental impact

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Procesne cevi

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Izazov u novogradnji

Specijalne tehnologije premaza za specijalne zahteve u industriji

Scope	Specification	System
Non-insulated C.S. ambient temp to 120°C	Surface prep. : abrasive blast cleaning to ISO Sa 2.5 ($R_z = 50-75 \mu\text{m}$) Primer : 75 μm of 2-pack Epoxy zinc rich (organic zinc) Intermediate : 150 μm of 2-pack epoxy MIO Finish : 50 μm of 2-pack acrylic polyurethane	A
Non-insulated C.S. 121°C to 200°C	Surface prep. : abrasive blast cleaning to ISO Sa 2.5 ($R_z = 30-75 \mu\text{m}$) Primer : 75 μm of 2-pack ethyl zinc silicate (inorganic zinc) Finish : 2 x 30 μm of silicone acrylic coating	B
Non-insulated C.S. 201°C to 400°C	Surface prep. : abrasive blast cleaning to ISO Sa 2.5 ($R_z = 30-75 \mu\text{m}$) Primer : 75 μm of 2-pack ethyl zinc silicate (inorganic zinc) Finish : 2 x 25 μm of single pack silicone-based coating	C
Non-insulated C.S. 401°C to 540°C	Surface prep. : abrasive blast cleaning to ISO Sa 2.5 ($R_z = 30-75 \mu\text{m}$) Coating : 2 x 25 μm of single pack silicone based coating	D
Non-insulated C.S. vessels and cyclic temperature piping. Ambient to 400 °C	Surface prep. : abrasive blast cleaning to ISO Sa 2.5 ($R_z = 50-75 \mu\text{m}$) Coating : 2 x 100 μm of Titanium Modified Inorganic Co-Polymer.	P
Non-insulated C.S. Constant operating temperature piping. Ambient to 565 °C	Surface prep. : abrasive blast cleaning to ISO Sa 2.5 ($R_z = 50-75 \mu\text{m}$) Coating : 1 x 175 μm of Titanium Modified Inorganic Co-Polymer.	Q (Note 1)
Non-insulated Stainless Steel. -196 °C to 200°C	Surface prep. : Light abrasive blast cleaning ($R_z = 30-50 \mu\text{m}$) Primer : 100 μm of 2 pack epoxy phenolic primer Finish : 100 μm of 2 pack epoxy phenolic finish	E (Note 2)
Non-insulated/ non- fireproofed galvanized steel ambient temperature (in case of color coding)	surface prep. : light abrasive blast cleaning ($R_z = 30-50 \mu\text{m}$) or treatment with mordant/etching solution primer : 75 μm of 2-pack zinc-free epoxy finish : 50 μm of 2-pack acrylic polyurethane	F

SURFACES TO BE PAINTED : CARBON STEEL AND LOW ALLOY STEEL BARE (UNINSULATED) (Structural steel, piping, vessel, tanks, exchangers, heaters, stacks, etc.)					
CICLE N°	OPER. TEMP.	SURF. PREP.	DESCRIPTION	THK. MICR.S (4)	PAINT TYPE
2-1	Below 120°C	Sa 2,5	primer : INORGANIC ZINC intermediate : POLYAMIDE EPOXY finish : ALIPHATIC ACRYLIC POLIURETHANE	75 125 50	101 201 204
2-2	121°C to 200°C	Sa 2,5	primer : INORGANIC ZINC intermediate : SILICONE ACRYLIC finish : SILICONE ACRYLIC	75 40 40	101 202 202
2-3	201°C to 400°C	Sa 2,5	primer : INORGANIC ZINC intermediate : SILICONE ALUMINUM finish : SILICONE ALUMINUM	75 25 25	101 203 203
2-4	401°C to 540°C	Sa 2,5 (Note 1)	primer : SILICONE PRIMER intermediate : finish : SILICONE ALUMINUM	25 -- 25	102 --- 203

SURFACES TO BE PAINTED: CARBON STEEL AND LOW ALLOY STEEL INSULATED FOR HEAT/COLD CONSERVATION OR PERSONNEL PROTECTION (piping, vessel, tanks, exchangers operating <u>discontinuously</u>) (Note 2)					
CICLE N°	OPER. TEMP.	SURF. PREP.	DESCRIPTION	THK. MICR.S (4)	PAINT TYPE
2-6 (Note 7)	150°C to 200°C	Sa 2,5 (Note 1)	primer : SILICONE ACRYLIC intermediate : finish : SILICONE ACRYLIC	40 -- 40	202 --- 202
2-7	200°C to 540°C	Sa 2,5 (Note 1)	primer : SILICONE PRIMER intermediate : finish : SILICONE ALUMINUM	25 -- 25	102 --- 203

Interbond 2340UPC

“A user friendly coating specifically designed for combatting CUI that helps generate time and cost savings through fast low temperature drying and improved application tolerances”

- Alkylated amine epoxy next generation epoxy phenolic (universal pipe coating)
- High temperature resistance to 230°C(446°F)
- Can be used at cryogenic temperatures down to -196°C(-320°F)
- Reduces specification complexity
- Fast low temperature cure – dry to overcoat in 14 hours @ -5°C (23°F)
- Meets ISO12944-9:2018 performance criteria for an ambient cured coating
- Excellent tolerance to over-application
- Can protect stainless steel against chloride induced stress corrosion cracking
- Airless spray, brush or roller applied
- Typical scheme – 2x100-175µm

Interbond 1202UPC

“Interbond 1202UPC is a next generation technology designed to provide corrosion resistance from -196°C (-321°F) to 650°C (1202°F) without the need for heat cure or a primer allowing applicators to maximise productivity and generate cost savings”

- Next generation inorganic copolymer that conforms to the Inert Multipolymeric Matrix (IMM) definition
- Corrosion and temperature resistance from -196°C (-321°F) to 650°C (1202°F)
- No need to heat cure or use a primer to achieve corrosion resistance
- Conforms to the ISO12944 (ISO20340) performance criteria after ambient cure
- Can be used on insulated and uninsulated carbon and stainless steel
- Airless spray, air spray, brush and roller application
- Hard dry in 3 hours @ 25°C (77°F)
- Two pack technology
- Typical scheme – 2x100µm

Pasivna zaščita od požara

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Epoksidna intumescentna zastita od pozara

Choosing the most suitable passive fire proofing for protection of an asset is a critical decision for owners and engineers: not least when considering the safety of their personnel.

When selecting fire protection for an onshore facility you need to be confident you are selecting the right material for the environment in which it will be installed.

With over 40 years of experience providing fire protection solutions in high-risk industrial applications you can have confidence in our expertise

Formulated to provide long term corrosion and fire protection with minimal maintenance, Chartek® is the most used epoxy passive fire protection in the oil and gas industry.

Chartek 2218

- Inovativna & patentirana tehnologija
- Sertifikat UL1709 , preko >90 minuta zastite
- Ocvrscava na minus 10°C
- Redukuje potrošnju energije za grejanje prilikom rada



Chartek 1709

- Razvijen za onshore market
- 10 godina bez promena u svim uslovima eksploatacije
- Preko 2 million kvadratnih m ugradjeno

Uspesno završeni projekti

AkzoNobel

Experts in fire protection, globally

Expertise available in 60 countries worldwide



We have a network of fire protection technical service representatives with:

- Many years of experience in supporting fire protection projects around the world
- Full understanding of yard practices and operating conditions

40 years of onshore fire protection experience

Project	Owner
Ras Tanura	Saudi Aramco
Ludwigshafen Plant	BASF
Grangemouth Refinery	BP
Tjeldbergodden Plant	Statoil
Knapsack Chemical Site	Petroplus
Lukoil Neftochim Burgas	Lukoil
Freeport LNG	ConocoPhillips
Recap Refinery	Petrobras
Ulsan Refinery	S-Oil
Pulau Bukom Refinery	Shell
Pointe-à-Pierre Refinery	Petrotrin
Gorgon LNG	Chevron
Sannazzaro de' Burgondi Refinery	ENI
Ichthys LNG	Total / INPEX

International Petroleum & Chemical Linings

AkzoNobel



International Tank Linings

Najkompletnija ponuda



- ✓ Epoxy (standard, phenolic, novolac, polycyclamine cured)
- ✓ Vinyl ester, (standard and novolac)
- ✓ Zinc silicate
- ✓ Polyurea
- ✓ Cementitious

Kompletna ponuda zastite rezervoara

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Rezervoari spolja

Interfine

As part of a high performance system, our finishes provide anticorrosive and aesthetic durability. For colour and gloss which lasts four times longer than traditional polyurethanes, choose Interfine® acrylic polysiloxane. Intertherm and Interbond products can also be used under insulation to prevent CUI

Krov rezervoara

Intertherm

Intertherm insulation coatings limit the transfer of solar energy to the walls and roofs of storage tanks, preventing an increase in the temperature of the stored cargo. This reduces evaporation and loss of product.

Rezervoari unutra

Interline & Enviroline

Steeped in history and experience, our linings range is easy to understand and select from, with products developed to deliver maximum technical performance for almost every linings application in the field.

Tankvana

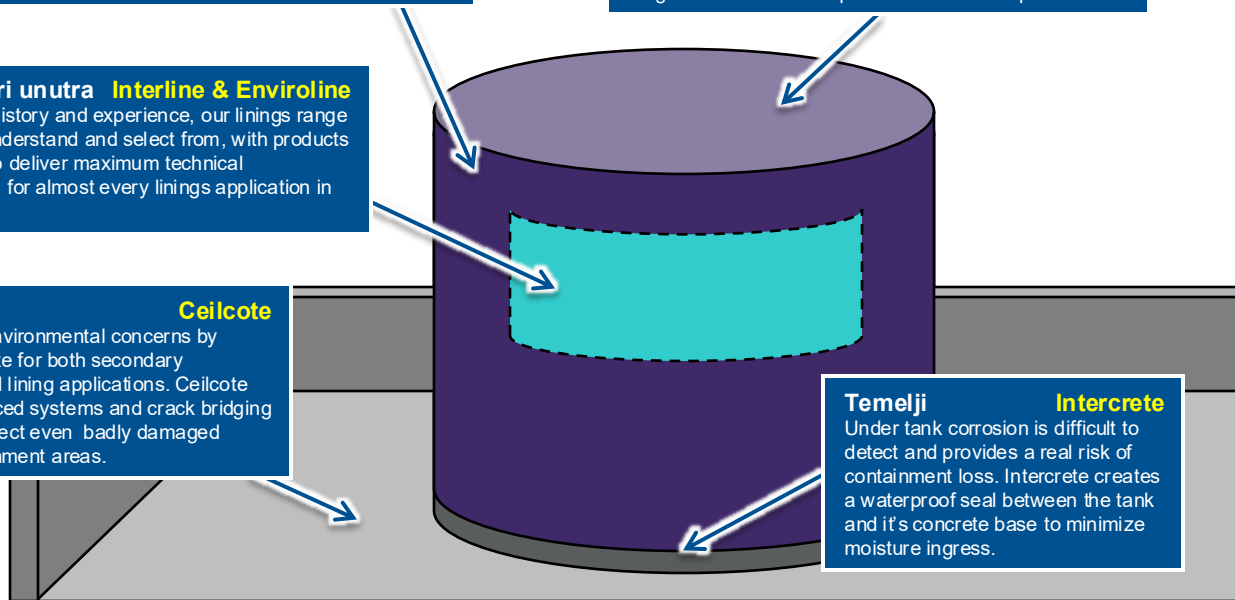
Ceillcote

Alleviate your environmental concerns by choosing Ceillcote for both secondary containment and lining applications. Ceillcote provides reinforced systems and crack bridging schemes to protect even badly damaged concrete containment areas.

Temelji

Intercrete

Under tank corrosion is difficult to detect and provides a real risk of containment loss. Intercrete creates a waterproof seal between the tank and its concrete base to minimize moisture ingress.



Hvala